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=> fil reg
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DICTIONARY FILE UPDATES:   6 APR 2008  HIGHEST RN 1012582-98-7

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=> d sta que l14
L12             STR

 CH2==CH--O--G1--G2
 1    2   3   4   5


REP G1=(4-8) CH2
VAR G2=O/N/X
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   5

STEREO ATTRIBUTES: NONE
L14        3349 SEA FILE=REGISTRY SSS FUL L12

100.0% PROCESSED   57083 ITERATIONS                          3349 ANSWERS
SEARCH TIME: 00.00.01


=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 14:47:27 ON 07 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 7 Apr 2008 VOL 148 ISS 15
FILE LAST UPDATED: 6 Apr 2008 (20080406/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l81 bib abs hitstr retable tot

L81 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:509926 HCAPLUS Full-text
DN 139:69696
TI Preparation of unsaturated polyether carboxylic acids for use in emulsion polymerization
IN Falk, Uwe; Poellmann, Klaus; Ahrens, Hendrik
PA Clariant G.m.b.H., Germany
SO Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1323741	A2	20030702	EP 2002-27469	20021210
EP 1323741	A3	20031112		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
DE 10163258	A1	20030710	DE 2001-10163258	20011221
BR 2002005173	A	20040629	BR 2002-5173	20021210
US 20030124261	A1	20030703	US 2002-323097	20021218
JP 2003212989	A	20030730	JP 2002-369981	20021220
PRAI DE 2001-10163258	A	20011221		

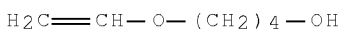
AB Polyethers bearing terminal unsatd. and carboxy groups, useful as polymerizable emulsifiers and in emulsion polymerization, are prepared Adding 160 g chloroacetic acid over 10 min to 730 g 10:4 polyethylene-polypropylene glycol at 50°, adding 62 g NaOH in 8 portions over 2 h, and heating at 70° for 2 h gave 952 g polyether with terminal allyl and CO2Na groups. Use of the product as a polymerizable emulsifier and comonomer in emulsion polymerization are exemplified.

IT 126879-52-5, Polyethylene-polypropylene glycol mono[(4-vinyloxy)butyl] ether
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of polyoxyalkylene unsatd. ethers with sodium chloroacetate)
RN 126879-52-5 HCAPLUS
CN Oxirane, 2-methyl-, polymer with oxirane, mono[4-(ethenyloxy)butyl] ether (CA INDEX NAME)

CM 1

CRN 17832-28-9

CMF C6 H12 O2

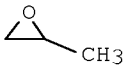


CM 2

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 3

CRN 75-56-9
CMF C3 H6 O



CM 4

CRN 75-21-8
CMF C2 H4 O

L81 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:579203 HCAPLUS Full-text
DN 135:167188
TI Polyalkylene glycol-modified organosiloxanes
IN Poellmann, Klaus; Pfueller, Oliver; Stankowiak, Achim
PA Clariant G.m.b.H., Germany
SO Ger. Offen., 8 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

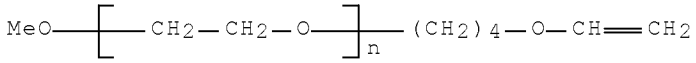
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 10020670	A1	20010809	DE 2000-10020670	20000427 <--
PRAI DE 2000-10020670		20000427 <--		

AB Title polymers are manufactured by reaction of SiH-containing organosiloxanes with CH2:CHO(CH2)kX(AO)mR [k = 1-20, X = O or N[(AO)mR], A = C2-4 alkylene, m = 5-900, R = H, C1-10 alkyl, or aryl] in the presence of transition metal catalysts.
IT 133990-87-1P 353759-41-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(polyalkylene glycol reactant; manufacture of polyalkylene glycol-modified organosiloxanes by hydrosilylation)

RN 133990-87-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[4-(ethenyloxy)butyl]-ω-methoxy- (9CI) (CA INDEX NAME)

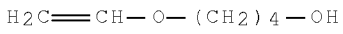


RN 353759-41-8 HCAPLUS

CN Oxirane, 2-methyl-, polymer with oxirane, mono[4-(ethenyloxy)butyl] ether, block (CA INDEX NAME)

CM 1

CRN 17832-28-9
CMF C6 H12 O2



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CRN 106392-12-5
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CCI PMS

CM 3

CRN 75-56-9
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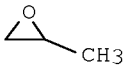

CM 4

CRN 75-21-8
CMF C2 H4 O

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				EP 0777010 A2	HCAPLUS
Anon				EP 0819719 A2	HCAPLUS
Anon				EP 0995771 A2	HCAPLUS
Anon				DE 4215076 A1	HCAPLUS
Anon				GB 802467 A	HCAPLUS

L81 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:50128 HCAPLUS Full-text
DN 134:116330
TI Preparation and use of aqueous alkenyl ether polymer dispersions
IN Pollmann, Klaus; Ahrens, Hendrik; Stankowiak, Achim
PA Clariant G.m.b.H., Germany
SO Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1069139	A2	20010117	EP 2000-113547	20000627 <--
	EP 1069139	A3	20030312		
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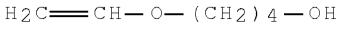
	DE 19939266	A1	20010208	DE 1999-19939266	19990819 <--
	DE 19939266	B4	20061109		
	JP 2001064332	A	20010313	JP 2000-211475	20000712 <--
	US 6391923	B1	20020521	US 2000-615422	20000713 <--
	US 20020103290	A1	20020801	US 2002-103903	20020322 <--
PRAI	DE 1999-19932572	A	19990713 <--		
	DE 1999-19939266	A	19990819 <--		
	US 2000-615422	A3	20000713 <--		

AB The title dispersions are prepared by radical, aqueous polymerization of H2O-insol. unsatd. compds. in the presence of the ethers CH2:CH(CH2)n[O(CH2)k]bZ(AO)mR [A = C2-4-alkylene; R = H, C1-4-alkyl; Z = O, N[(AO)mR]; b = 0, 1; k = 1-20; m = 5-900; n = 0, 1]. Reaction of 50.5 g 4-hydroxybutyl vinyl ether with 145 g propylene oxide and then 440 g ethylene oxide in the presence of NaOMe at 140° gave a macromer (I) with OH number 50.9 (mol. weight 1100) and I number 21 g/100 g. Persulfate-initiated polymerization of 300 g vinyl isodecanoate and 900 g vinyl acetate in the presence of 170 g 6% I emulsion at 80° gave a copolymer emulsion.
IT 126879-52-5P, Polyethylene-polypropylene glycol mono[4-(vinyloxy)butyl] ether 133990-87-1P, Polyethylene glycol methyl [4-(vinyloxy)butyl] ether 320785-51-1P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(macromers as emulsifying agents)
RN 126879-52-5 HCAPLUS
CN Oxirane, 2-methyl-, polymer with oxirane, mono[4-(ethenyloxy)butyl] ether (CA INDEX NAME)

CM 1

CRN 17832-28-9
CMF C6 H12 O2

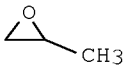


CM 2

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 3

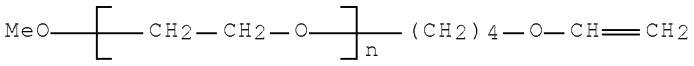
CRN 75-56-9
CMF C3 H6 O



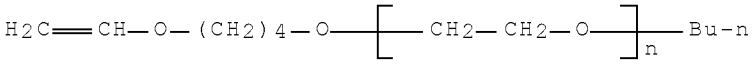
CM 4

CRN 75-21-8
CMF C2 H4 O

RN 133990-87-1 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-[4-(ethenyloxy)butyl]-ω-methoxy- (9CI) (CA INDEX NAME)



RN 320785-51-1 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-butyl-ω-[4-(ethenyloxy)butoxy]- (9CI) (CA INDEX NAME)



L81 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:819066 HCAPLUS Full-text

DN 132:64668
TI Polymers from block copolymerizable monomers and their use, particularly for the preparation of ionic conductors
IN Michot, Christophe; Gauthier, Michel; Vallee, Alain; Harvey, Paul-Etienne; Armand, Michel
PA Hydro-Quebec, Can.
SO Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 967233	A1	19991229	EP 1999-112241	19990625 <--
	EP 967233	B1	20060301		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2242017	A1	19991225	CA 1998-2242017	19980625 <--
	CA 2243103	A1	20000110	CA 1998-2243103	19980710 <--
	CA 2275736	A1	19991225	CA 1999-2275736	19990621 <--
	JP 2000154223	A	20000606	JP 1999-180143	19990625 <--
	EP 1693390	A1	20060823	EP 2006-4071	19990625 <--
	R: DE, FR, GB, IT				
	US 20020128364	A1	20020912	US 2002-139320	20020507 <--
	US 6492449	B2	20021210		
	US 20030125437	A1	20030703	US 2002-314325	20021209 <--
	US 20040220348	A1	20041104	US 2004-860017	20040604 <--
PRAI	CA 1998-2242017	A	19980625 <--		
	CA 1998-2243103	A	19980710 <--		
	US 1999-337251	B3	19990622 <--		
	EP 1999-112241	A3	19990625 <--		
	US 2002-139320	A1	20020507		
	US 2002-314325	A1	20021209		

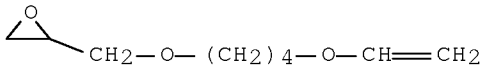
AB A crosslinkable polymer prepared by anionic polymerization followed by cationic crosslinking has the structure AnQYp [A = radical reactive in anionic polymerization; Q = direct link, CO, SO2, C1-30 organic radical of valence n + p inert toward ionic polymerization; Y = radical reactive in cationic polymerization and inert to anionic polymerization initiators; n = 1-3; p = 1-6]. Such polymers are capable of dissolving ionic compds., inducing elec. conductivity to form electrolytes. Thus, 110 g trimethylolpropane-initiated poly(ethylene oxide) prepared by anionic polymerization was dissolved in 250 mL THF, treated with tert-BuOK, and used to initiate polymerization of 86 g 1-glycidoxy-4- (vinyloxy)butane, after which the chain ends were capped by treatment with Me2SO4. A polymer electrolyte was obtained by treatment of an acetone solution of the block copolymer with LiClO4 and photochem. crosslinked after addition of [(BuOC6H4)IPh]+ -N(SO2F)2 to produce an elastomer with conductivity 10-5 S/cm at 25°.

IT 253127-29-6P, Butylene oxide-ethylene oxide-1-glycidoxy-4-(vinyloxy)butane copolymer 253127-30-9P, Ethylene oxide-1-glycidoxy-4-(vinyloxy)butane copolymer
RL: IMF (Industrial manufacture); PREP (Preparation)
(cationically crosslinkable; polymers from block copolymerizable monomers)
RN 253127-29-6 HCAPLUS
CN Oxirane, [[4-(ethenyloxy)butoxy]methyl]-, polymer with ethyloxirane and oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 16801-21-1

CMF C9 H16 O3



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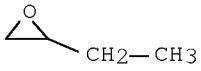
CRN 106-88-7
CMF C4 H8 O



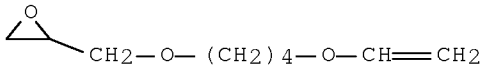
CM 3

CRN 75-21-8
CMF C2 H4 O

RN 253127-30-9 HCAPLUS
CN Oxirane, [[4-(ethenyloxy)butoxy]methyl]-, polymer with oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 16801-21-1
CMF C9 H16 O3



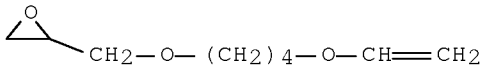
CM 2

CRN 75-21-8
CMF C2 H4 O

IT 253127-30-9DP, Ethylene oxide-1-glycidoxy-4-(vinyloxy)butane copolymer, lithium complexes
RL: IMF (Industrial manufacture); PREP (Preparation)
(cationically crosslinkable; polymers from block copolymerizable monomers for preparation of ionic conductors)
RN 253127-30-9 HCAPLUS
CN Oxirane, [[4-(ethenyloxy)butoxy]methyl]-, polymer with oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 16801-21-1
CMF C9 H16 O3



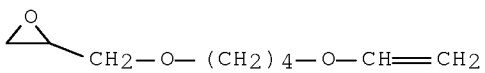
CM 2

CRN 75-21-8
CMF C2 H4 O

IT 253127-29-6DP, Butylene oxide-ethylene oxide-1-glycidoxy-4-(vinyloxy)butane copolymer, lithium complexes
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(cationically crosslinkable; polymers from block copolymerizable monomers for preparation of ionic conductors)
RN 253127-29-6 HCAPLUS
CN Oxirane, [[4-(ethenyloxy)butoxy]methyl]-, polymer with ethyloxirane and oxirane (9CI) (CA INDEX NAME)

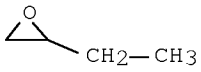
CM 1

CRN 16801-21-1
CMF C9 H16 O3



CM 2

CRN 106-88-7
CMF C4 H8 O



CM 3

CRN 75-21-8
CMF C2 H4 O

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Christian, W	1992			US 5146005 A	HCAPLUS
Goldschmidt Ag Th	1991			EP 0421230 A	HCAPLUS
Hydro Quebec	1995			EP 0657485 A	HCAPLUS
Ji-Hong, K	1997			US 5665841 A	HCAPLUS
Rohm & Haas	1960			GB 836046 A	

L81 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:973537 HCAPLUS Full-text
DN 123:343308
TI Pretreating fabrics to impart improved soil release properties thereto using polymers of vinyl ethers
IN Holland, Richard J.; Guiney, Kathleen M.; Baur, Richard; Kroner, Matthias
PA USA
SO Can. Pat. Appl., 30 pp.
CODEN: CPXXEB
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2139010	A1	19950629	CA 1994-2139010	19941223 <--
	CA 2139010	C	19990420		
	US 5514288	A	19960507	US 1993-174598	19931228 <--
PRAI	US 1993-174598	A	19931228 <--		

AB In the title process, fabrics are treated with polymers containing 99-1% units of vinyl ethers and 1-99% units of adducts of C2-4 alkylene oxides with vinyl ethers and/or polytetrahydrofuran vinyl ethers, and optionally containing units of other copolymerizable monomers. An oil-stained polyester fabric was treated with an aqueous solution containing 1.25% ethoxylated hydroxybutyl

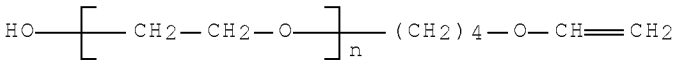
vinyl ether-hydroxybutyl vinyl ether copolymer (I) and 5.5% Plurofac B-25-5 (surfactant) in a washing machine for 12 min at 150°F, dried, stained with dirty motor oil, and washed 12 min at 150°F to give a laundered fabric with soil release amount 95.4%, vs. 52.9% using no I.

IT 151313-98-3 151314-01-1
RL: TEM (Technical or engineered material use); USES (Uses)
(finish; for pretreating fabrics to impart improved soil release properties)

RN 151313-98-3 HCAPLUS
CN 1-Butanol, 4-(ethenyloxy)-, polymer with α-[4-(ethenyloxy)butyl]-ω-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

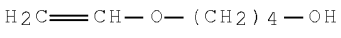
CM 1

CRN 126682-74-4
CMF (C2 H4 O)n C6 H12 O2
CCI PMS



CM 2

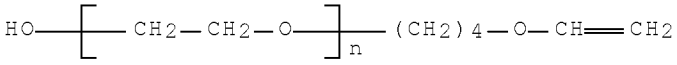
CRN 17832-28-9
CMF C6 H12 O2



RN 151314-01-1 HCAPLUS
CN 1-Hexanol, 6-(ethenyloxy)-, polymer with α-[4-(ethenyloxy)butyl]-ω-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

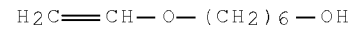
CM 1

CRN 126682-74-4
CMF (C2 H4 O)n C6 H12 O2
CCI PMS



CM 2

CRN 27336-16-9
CMF C8 H16 O2



L81 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1993:652607 HCAPLUS Full-text
DN 119:252607
TI Polymers of hydroxyalkyl vinyl ethers for use in detergents
IN Kroner, Matthias; Hartmann, Heinrich; Wolf, Gerhard; Baur, Richard; Diessel, Paul; Jaeger, Hans Ulrich; Schwendemann, Volker; Perner, Johannes
PA BASF A.-G., Germany
SO Ger. Offen., 20 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 4130428	A1	19930318	DE 1991-4130428	19910913 <--
WO 9306142	A1	19930401	WO 1992-EP2041	19920904 <--
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
EP 603236	A1	19940629	EP 1992-918765	19920904 <--
EP 603236	B1	19951129		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
ES 2080514	T3	19960201	ES 1992-918765	19920904 <--
US 5576407	A	19961119	US 1994-185971	19940210 <--
PRAI DE 1991-4130428	A	19910913 <--		
WO 1992-EP2041	W	19920904 <--		

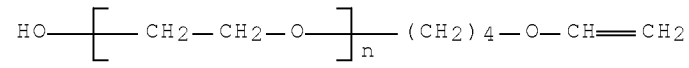
AB Detergents with better primary and secondary washing activity are prepared by radical or cationic copolymn. of 99-1% hydroxyalkyl vinyl ethers with 1-99% adduct of C2-4 epoxides with hydroxyalkyl vinyl ethers and/or polytetramethylene glycol vinyl ethers and 0-98% comonomers. Adding 86 g di-Et maleate, 86 g polyoxyethylated fatty alcs. (PFA), and 6 g tert-Bu peroxypivalate over 2 h to hydroxybutyl vinyl ether (I) 14, polyoxyethylated I (d.p. 3) 93, and PFA 93 g stirred at 70° and stirring for 2 h gave a copolymer (II) with K-value 14. Use of a mixture of 50% aqueous dodecylbenzenesulfonate 10, PFA 3, polypropylene glycol 2, H2O 77, and II 10 parts in washing a mixture of soiled fabrics, polyester fabric, and polyester-cotton blend is exemplified.

IT 151313-98-3P 151314-01-1DP, hydrolyzed
151314-01-1P
RL: PREP (Preparation)
(detergents, manufacture of)

RN 151313-98-3 HCAPLUS
CN 1-Butanol, 4-(ethenyloxy)-, polymer with α-[4-(ethenyloxy)butyl]-ω-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

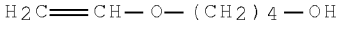
CM 1

CRN 126682-74-4
CMF (C2 H4 O)n C6 H12 O2
CCI PMS



CM 2

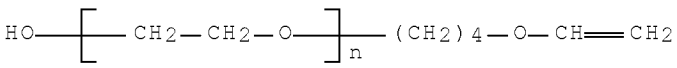
CRN 17832-28-9
CMF C6 H12 O2



RN 151314-01-1 HCAPLUS
CN 1-Hexanol, 6-(ethenyloxy)-, polymer with α-[4-(ethenyloxy)butyl]-ω-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

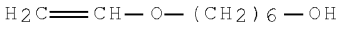
CM 1

CRN 126682-74-4
CMF (C2 H4 O)n C6 H12 O2
CCI PMS



CM 2

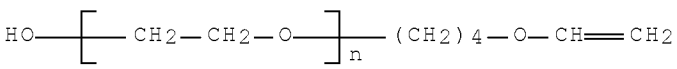
CRN 27336-16-9
CMF C8 H16 O2



RN 151314-01-1 HCAPLUS
CN 1-Hexanol, 6-(ethenyloxy)-, polymer with α-[4-(ethenyloxy)butyl]-ω-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

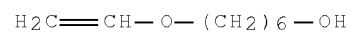
CM 1

CRN 126682-74-4
CMF (C2 H4 O)n C6 H12 O2
CCI PMS



CM 2

CRN 27336-16-9
CMF C8 H16 O2



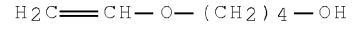
L81 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:610278 HCAPLUS Full-text
DN 115:210278
TI Weather-resistant water-based fluoropolymer coating compositions
IN Kanba, Motoi; Washida, Hiroshi; Ishida, Toru
PA Asahi Glass Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 03088882	A	19910415	JP 1989-285010	19891102 <--
PRAI JP 1989-159467	A1	19890623 <--		

AB The title compns. comprise fluoropolymers, light stabilizers, and aqueous media. Thus, Et vinyl ether 22.1, ω-hydroxybutyl vinyl ether 1.5, and CH2:CHO(CH2)4(OCH2CH2)nOH (number-average mol. weight 700) were emulsion polymerized in water in the presence of perfluorooctanic acid ammonium salt, K2CO3, NaHSO3, and (NH4)2S2O8 with ice cooling, then treated with 38.0 parts chlorotrifluoroethylene at 30° to give a fluoropolymer aqueous dispersion, 100 parts of which was mixed with 6.4 parts 4-Ph 2,4-dihydroxyphenyl ketone, then mixed with a film-forming aid, a leveling agent, and an antifoaming agent to give a coating, which was spread on a wood piece, then dried to give a test piece, which did not discolor after 500 h UV exposure.
IT 126879-52-5
RL: MOA (Modifier or additive use); USES (Uses)
(water-based coatings, containing light stabilizers, weather-resistant)
RN 126879-52-5 HCAPLUS
CN Oxirane, 2-methyl-, polymer with oxirane, mono[4-(ethenyloxy)butyl] ether (CA INDEX NAME)

CM 1

CRN 17832-28-9
CMF C6 H12 O2

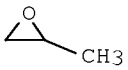


CM 2

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 3

CRN 75-56-9
CMF C3 H6 O



CM 4

CRN 75-21-8
CMF C2 H4 O

L81 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:230754 HCAPLUS Full-text
DN 114:230754
TI Alkyl vinyl ether copolymers as antifoaming and leveling agents for resin systems, especially coating compositions
IN Haubennestel, Karl Heinz; Bubat, Alfred
PA Byk-Chemie G.m.b.H., Germany
SO Ger. Offen., 19 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 3901608	A1	19900726	DE 1989-3901608	19890120 <--
DE 3901608	C2	19910207		
EP 379166	A2	19900725	EP 1990-100904	19900117 <--
EP 379166	A3	19920318		
EP 379166	B1	19940713		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
CA 2008077	A1	19900720	CA 1990-2008077	19900118 <--
CA 2008077	C	19990608		
JP 02232271	A	19900914	JP 1990-10429	19900118 <--
JP 2550195	B2	19961106		
US 5187201	A	19930216	US 1990-466149	19900119 <--
PRAI DE 1989-3901608	A	19890120 <--		

AB The title copolymers contain units CH(OR)CH2 (R = C1-18 alkyl, CmF2m+1CH2CH2; m = 4-18) and units CH(OX)CH2 [X = (CH2)xO(CH2CHR1O)yR2, (CH2CHR1O)zR3, (CH2)xO[CO(CH2)5O]pR2, (CH2)xO[CO(CH2)5O]p (CH2CHR1O)yR2, etc.; R1 = H, Me; R2 = H, C1-4 alkyl, Ac, benzyl; R3 = C1-22 alkyl, Ph substituted by 1-3 C1-9 alkyl groups; x = 2-6; y = 0-50; z = 1-50; p = 1-15] in 100:(1-100) ratio, have good compatibility with resin systems, are self-emulsifying in aqueous resin systems, and give good foam control and leveling. Thus, a copolymer (weight-average mol. weight 2230) prepared from 160 g iso-Bu vinyl ether and 40 g H2C:CHO(CH2)4O (CH2CH2O)8Me was used as a leveling agent in a photocurable furniture lacquer based on an unsatd. polyester and styrene. An

80:20 Et vinyl ether-triethylene glycol monovinyl ether copolymer was mixed with hydrophobic silica and used as an antifoaming agent in an aqueous lacquer based on an acrylate dispersion (Primal AC 4800).

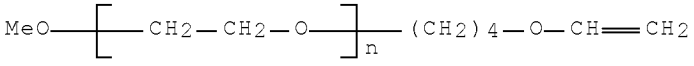
IT 133990-90-6
RL: USES (Uses)
(antifoaming and leveling agents, for coating compns.)

RN 133990-90-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[4-(ethenyloxy)butyl]-ω-methoxy-, polymer with ethoxyethene (9CI) (CA INDEX NAME)

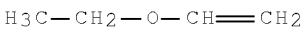
CM 1

CRN 133990-87-1
CMF (C2 H4 O)n C7 H14 O2
CCI PMS



CM 2

CRN 109-92-2
CMF C4 H8 O



L81 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1977:486067 HCAPLUS Full-text
DN 87:86067
OREF 87:13695a,13698a
TI Double-layer globular gel particles for molecular sieves
IN Motozato, Yoshiaki; Hirayama, Chuichi
PA Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 52011184	A	19770127	JP 1975-86683	19750717 <--
PRAI JP 1975-86683	A	19750717 <--		

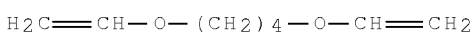
AB Double-layer globular polymer gel particles useful for mol. sieves are prepared Thus, a mixture of 700 mL 1% aqueous gelatin, 100 mL vinyl acetate, and 3 g Bz2O2 was suspension polymerized 15 h at 60° to give poly(vinyl acetate)(I) particles which were saponified 1 hr at 60° with a solution cong. 23 g Na2SO4 an 200 mL 5N NaOH, and mixed with 15 mL MeOH, giving poly(vinyl alc.) (II) [9002-89-5]-coated I particles. The II-coated particles were dipped in 10N NaOH solution at room temperature for 1 h, taken out, treated with 500 mL kerosine oil containing 15 mL epichlorohydrin at 60° for 24 h to give particles with crosslinked outer surface. The particles were treated

with petroleum ether and then saponified with 300 mL 5 N NaOH solution containing 100 mL MeOH at 60° for 24 h (inner layer was completely converted to II) to give 43.5 g hydrophilic double-layer gel particles useful for mol. sieves.

IT 29720-48-7
RL: USES (Uses)
(gels, double-layer, for mol. sieves)
RN 29720-48-7 HCAPLUS
CN Ethenol, polymer with 1,4-bis(ethenyloxy)butane (9CI) (CA INDEX NAME)

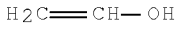
CM 1

CRN 3891-33-6
CMF C8 H14 O2



CM 2

CRN 557-75-5
CMF C2 H4 O



L81 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1968:30410 HCAPLUS Full-text
DN 68:30410
OREF 68:5943a,5946a
TI Heat-stable copolymers of vinyl chloride
IN Toyoshima, Kiyoshi; Nakamura, Keishu; Ban, Koichi; Ito, Koreatsu
PA Sumitomo Chemical Co., Ltd.
SO Jpn. Tokkyo Koho, 4 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
FAN.CNT 1

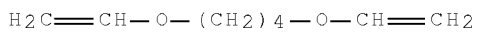
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 42009671	B4	19670518	JP	19630709 <--

AB The heat stability and mech. properties of poly(vinyl chloride) were improved by copolymg. vinyl chloride (I) with divinyl ethers (0.01-10 weight % based on I). Thus, a mixture of I 100, H2O 150, poly(vinyl alc.) 0.1, lauroyl peroxide 0.1, and divinyl ether of butanediol 0.3 part was sealed in a 50-ml. glass tube under N and shaken at 55° for 17 hrs. to give a powdered polymer in 86% yield, d.p. 1740, softening point 75°, brittle point -3°, and impact strength 4.6 kg.-cm./cm.2

IT 29720-48-7P, preparation
RL: PREP (Preparation)
(and heat stability and mech. properties of)
RN 29720-48-7 HCAPLUS
CN Ethenol, polymer with 1,4-bis(ethenyloxy)butane (9CI) (CA INDEX NAME)

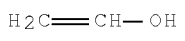
CM 1

CRN 3891-33-6
CMF C8 H14 O2



CM 2

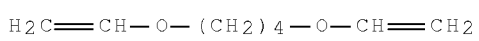
CRN 557-75-5
CMF C2 H4 O



IT 29720-48-7
RL: PRP (Properties)
(heat stability and mech. properties of)
RN 29720-48-7 HCAPLUS
CN Ethenol, polymer with 1,4-bis(ethenyloxy)butane (9CI) (CA INDEX NAME)

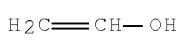
CM 1

CRN 3891-33-6
CMF C8 H14 O2



CM 2

CRN 557-75-5
CMF C2 H4 O



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(FILE 'HOME' ENTERED AT 13:47:13 ON 07 APR 2008)
SET COST OFF

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E POLLMANN/AU
L2 18 S E36,E37,E40-E43

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                E AHRENS/AU
L3            3 S E3
                E AHRENS H/AU
L4           85 S E3,E4,E16
                E STANKOWIAK/AU
L5           35 S E4,E5
                E CLARIANT/CO
                E CLARIANT?/CO,PA,CS
L6         2235 S CLARIANT?/CO,PA,CS
                E CLARIANT/CO
                E E39+ALL
                E E1+ALL
L7         2234 S E2+RT OR E2-27/PA,CS
L8            1 S L1 AND L2-L7
                SEL RN

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L9            7 S E1-E7
L10             STR
L11          50 S L10
L12             STR L10
L13          50 S L12
L14        3349 S L12 FUL
                SAV TEMP L14 CHEUNG103/A
L15         325 S L14 AND (C2H4O OR C2H6O2 OR C2H4CL2)
L16           7 S L15 AND 1/NC
L17           2 S L16 AND ("(C2H4O)NC10H20O2" OR "(C2H4O)NC7H14O2")/MF
L18           1 S L15 AND 2/NC AND 25322-68-3/CRN
L19         123 S L15 AND 75-21-8/CRN
L20          22 S L15 AND C2H6O2
L21           0 S L15 AND C2H4CL2
L22          82 S L19 AND (C3H6O OR C3H8O2 OR C3H6CL2)
L23          41 S L19 NOT L22
L24           3 S L23 AND 2/NC
L25           2 S L24 NOT C9H14O3
L26           8 S L23 AND CH4O
L27           1 S L26 AND "(C6H12O2.C4H8O.C2H4O)X.XCH4O"/MF
L28          23 S L23 AND C4H8O
L29          11 S L28 NOT (C6/ES OR F/ELS)
L30           7 S L29 NOT C3H4O2
L31           5 S L30 NOT C11H20O2
L32           6 S L29 NOT L31
L33           3 S L22 AND 3/NC
L34         172 S L15 NOT L16-L33
L35          19 S L34 AND 2/NC
                SEL RN 15 17 18 19
L36           4 S L35 AND E8-E11
L37          30 S L34 AND 3/NC
L38          23 S L37 NOT (S OR SI OR P OR F)/ELS
L39           3 S L38 AND C6H12O2
L40           1 S L39 AND C4H8O
L41          35 S L34 AND 4/NC
L42          17 S L41 NOT (S OR SI OR P OR F)/ELS
L43             STR L12
L44           0 S L43 CSS SAM SUB=L14
L45             STR L43
L46           0 S L45 CSS SAM SUB=L14
L47           0 S L45 CSS FUL SUB=L14
L48             STR L45
L49          50 S L48 SAM SUB=L14
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L50        2086 S L48 FUL SUB=L14
                SAV TEMP L50 CHEUNG103A/A
L51         211 S L50 AND (C2H4O OR C2H6O2 OR C2H4CL2)
L52         120 S L50 AND (C3H6O OR C3H8O2 OR C3H6CL2)
L53         910 S L50 AND (C4H8O OR C4H10O2 OR C4H8CL2)
L54          84 S L51 AND L52
L55         101 S L51 AND L53
L56          27 S L52 AND L53
L57         186 S L54-L56
L58           7 S L57 AND 3/NC
L59          16 S L57 AND 4/NC
L60           1 S L59 AND "(C6H12O2.C4H8O.C2H4O)X.XCH4O"/MF
L61          29 S L57 AND 5/NC
L62         134 S L57 NOT L58-L61,L17,L25,L27,L31,L33,L36,L40,L58,L60
L63          17 S L17,L25,L27,L31,L33,L36,L58,L60
                SAV TEMP L63 CHEUNG103B/A
L64             STR L45
L65           0 S L64 CSS SAM SUB=L14
L66           0 S L64 CSS FUL SUB=L14

     FILE 'HCAPLUS' ENTERED AT 14:41:03 ON 07 APR 2008
L67          18 S L63
L68           3 S L67 AND L1-L8
                E POELLMANN/AU
L69          22 S E12
L70           2 S L67 AND L69
L71           3 S L68,L70
L72           0 S L67 AND PY<=2000 NOT P/DT
L73           9 S L67 AND (PD<=20000714 OR PRD<=20000714 OR AD<=20000714) AND P
L74          10 S L71,L73
L75           8 S L67 NOT L74

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     FILE 'HCAPLUS' ENTERED AT 14:43:15 ON 07 APR 2008
L76             TRA L74 1- RN :       84 TERMS

     FILE 'REGISTRY' ENTERED AT 14:43:15 ON 07 APR 2008
L77          84 SEA L76
L78          26 S L77 AND L14 NOT L63
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L79           8 S E1-E8 AND L78

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L80           2 S L70 AND L74
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     FILE 'HCAPLUS' ENTERED AT 14:47:27 ON 07 APR 2008

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